



cerexagri

**TOPSIN (R) M 70%WP**

Material Safety Data Sheet

Cerexagri, Inc.

**1 PRODUCT AND COMPANY IDENTIFICATION****Agrichemicals Group**

Cerexagri, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406

**EMERGENCY PHONE NUMBERS:**

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 767-5089 (24Hrs)

| Information Telephone Numbers | Phone Number   | Available Hrs        |
|-------------------------------|----------------|----------------------|
| R&D Technical Service         | 610-878-6100   | 8:00am to 5:00pm EST |
| Customer Service              | 1-800-438-6071 | 8:00am - 5:00 pm EST |

Product Name TOPSIN (R) M 70%WP  
Product Synonym(s)

Chemical Family Thioallophanate  
Chemical Formula C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S<sub>2</sub>  
Chemical Name CAS Name = dimethyl [1,2- phenylenebis (iminocarbonothioyl)] bis [carbamate]  
IUPAC Name =dimethyl 4,4'-(o-phenylene)bis(3-thioallophanate)  
EPA Reg Num 73545-11 (see Section 16  
for Reg. No. History)  
Product Use Fungicide

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

| Ingredient Name    | CAS RegistryNumber | Typical Wt. % | OSHA |
|--------------------|--------------------|---------------|------|
| Thiophanate-methyl | 23564-05-8         | 70            | Y    |

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**3 HAZARDS IDENTIFICATION****Emergency Overview**

Fine, light tan powder with faint sulfur odor

CAUTION!

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

CAUSES EYE IRRITATION.

MAY CAUSE THYROID & LIVER DAMAGE AFTER REPEATED EXPOSURE BASED ON ANIMAL DATA

MAY CAUSE ALLERGIC SKIN REACTION.

Avoid contact with eyes, skin and clothing. Avoid breathing dust.

**Potential Health Effects**

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be practically non-toxic if swallowed, no more than slightly toxic if absorbed through skin, slightly toxic if inhaled, non-irritating to skin and slightly irritating to eyes. Repeated exposure may cause an allergic skin reaction. Repeated or long-term exposure may cause adverse effects on the liver or thyroid.



**4 FIRST AID MEASURES**

**IF IN EYES,**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF ON SKIN, Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF SWALLOWED,**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF INHALED,**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

**5 FIRE FIGHTING MEASURES**

**Fire and Explosive Properties**

|                           |     |                    |
|---------------------------|-----|--------------------|
| Auto-Ignition Temperature | N/A |                    |
| Flash Point               | N/A | Flash Point Method |
| Flammable Limits- Upper   | N/A |                    |
| Lower                     | N/A |                    |

**Extinguishing Media**

Use water spray, carbon dioxide, foam or dry chemical.

**Fire Fighting Instructions**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and Explosion Hazards**

None known.

**6 ACCIDENTAL RELEASE MEASURES**

**In Case of Spill or Leak**

Contain spill. Sweep or scoop up and remove to suitable container. Flush with water. Prevent spilled product from entering sewers or natural water. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**7 HANDLING AND STORAGE**

**7 HANDLING AND STORAGE****Handling**

Wash thoroughly after handling.

Do not get in eyes, on skin or on clothing.

Do not breathe dust.

Keep container closed. Use only with adequate ventilation.

Empty container may contain hazardous residues. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply directly to water by cleaning of equipment or disposal of wastes. For emergency information on product, or usage, etc., call 1-800-424-9300, Monday through Friday, 9 a.m. to 5 p.m. After 5 p.m. call your poison control center.

**Storage**

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls**

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Eye / Face Protection**

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**Skin Protection**

Minimize skin contamination by following good industrial hygiene practice. Wearing rubber gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Respiratory Protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Airborne Exposure Guidelines for Ingredients**

The components of this product have no established Airborne Exposure Guidelines

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



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**9 PHYSICAL AND CHEMICAL PROPERTIES**

|                     |   |
|---------------------|---|
| Appearance/Odor     | Fine, light tan powder with faint sulfur odor     |
| pH                  |   |
| Specific Gravity    | N/A   |
| Vapor Pressure      | 7.12 X10 <sup>-8</sup> mm Hg (technical material) |
| Vapor Density       | NE  |
| Melting Point       | 172 C with decomposition                          |
| Freezing Point      | N/A   |
| Boiling Point       | N/A   |
| Solubility In Water | Insoluble   |
| Evaporation Rate    | N/A   |
| Percent Volatile    | N/A   |

**10 STABILITY AND REACTIVITY****Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

**Hazardous Polymerization**

Does not occur.

**Incompatibility**

Strong oxidizers

**Hazardous Decomposition Products**

N/A

**11 TOXICOLOGICAL INFORMATION****Toxicological Information**

Data on this material and/or its components are summarized below.

Topsin M WSB Fungicide

Single exposure (acute) studies indicate that this material is practically non-toxic if swallowed (rat LD<sub>50</sub> >5,000 mg/kg), no more than slightly toxic if absorbed through skin (rabbit LD<sub>50</sub> >2,000 mg/kg), slightly toxic if inhaled (rat 4-hr LC<sub>50</sub> 1.8 mg/l), non-irritating to rabbit skin and slightly irritating to rabbit eyes. Skin allergy was observed in guinea pigs following repeated exposure. Repeated or long-term oral administration produced effects on the thyroid, liver or kidneys in rats, mice or dogs. An increased incidence of liver tumors was observed in mice and thyroid tumors were observed in male rats following long-term oral exposure. No effects were seen on the ability of male or female rats to reproduce when exposed orally for 2 successive generations. No birth defects were observed in the offspring of rats exposed orally during pregnancy. In rabbits, developmental toxic effects were noted only at maternally toxic doses. No genetic changes were observed in tests using animal cells.

**12 ECOLOGICAL INFORMATION****Ecotoxicological Information**

This material is practically non-toxic to carp (96-hr LC<sub>50</sub> >100 mg/l) and fiddler crab (96-hr LC<sub>50</sub> >560 mg/l). It is slightly toxic to bluegill (96-LC<sub>50</sub> 15.8 mg/l), Daphnid (48-hr EC<sub>50</sub> 15.6 mg/l) and shrimp (96-hr LC<sub>50</sub> 25.1 mg/l). It is moderately toxic to trout (96-hr LC<sub>50</sub> 2.2 mg/l) and oysters (96-hr LC<sub>50</sub> 4.6 ppm), and highly toxic to



**12 ECOLOGICAL INFORMATION**

catfish.

**Chemical Fate Information**

No data are available.

**13 DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations.

**14 TRANSPORT INFORMATION**

DOT Name Not Regulated By DOT.(SEE DOT SPECIAL MEMO BELOW)  
 DOT Technical Name  
 DOT Hazard Class  
 UN Number  
 DOT Packing Group PG  
 RQ  
 DOT Special Information When shipped internationally by vessel must be shipped, labeled and marked as follows:  
 Environmentally hazardous substances, solid, n.o.s. (Thiophanate-methyl), 9, UN3077, PG III, Marine Pollutant

**15 REGULATORY INFORMATION**

**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)**

|                          |   |                            |   |
|--------------------------|---|----------------------------|---|
| Immediate (Acute) Health | Y | Fire                       | N |
| Delayed (Chronic) Health | Y | Reactive                   | N |
|                          |   | Sudden Release of Pressure | N |

**Ingredient Related Regulatory Information:**

|                                   |                  |                 |
|-----------------------------------|------------------|-----------------|
| <b>SARA Reportable Quantities</b> | <u>CERCLA RQ</u> | <u>SARA TPQ</u> |
| Thiophanate-methyl                | 1 LBS            |                 |

**SARA Title III, Section 313**

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2  
 Thiophanate-methyl

**California Prop 65 - Developmental Toxin**

This product does contain the following chemical(s), as indicated below, currently on the California List of Developmental Toxins.  
 Thiophanate-methyl

**16 OTHER INFORMATION**



**Revision Information**

Revision Date                      13 JAN 2005                      Revision Number 12  
Supersedes Revision Dated    15-OCT-2004

**Revision Summary**

Add trademark and reference to sections 1 & 16

**Key**

NE= Not Established    NA= Not Applicable    (R) = Registered Trademark

**Miscellaneous**

Topsin M70 WP History of registration numbers:  
Original Reg. No.    = 4581-322  
Transfer Reg No.    = 73545-3 (effective 8/23/00)  
Transition Reg No. = 4581-403 (effective 7/25/01)  
Current Reg. No.    = 73545-11 (effective 10/29/03)

Topsin (R) is a registered trademark of Nippon Soda Company, Ltd.

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